

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN  
 AB The hydrolysis of aluminates was studied in aqueous H2O2 by 19F and 27Al NMR. During fluoroaluminate hydrolysis, polymeric Al  $\mu$ -peroxofluorohydroxy complexes form and precipitate as x-ray amorphous compds. containing 13-15% peroxide oxygen. A study of the hydrolysis process in aqueous and aqueous H2O2 solns. indicates the formation of mixed ligand Al complexes (Al2F8( $\mu$ -OH)(OH)25-, Al2F4( $\mu$ -OH)(OH)65-, and isomeric forms).

ACCESSION NUMBER: 1991:172500 CAPLUS  
 DOCUMENT NUMBER: 114:172500  
 TITLE: Hydrolysis of aluminum in aqueous peroxide solutions  
 AUTHOR(S): Kon'shin, V. V.; Chernyshov, B. N.  
 CORPORATE SOURCE: Inst. Khim., USSR  
 SOURCE: Koordinatsionnaya Khimiya (1990), 16(10), 1314-18  
 CODEN: KOKHDC; ISSN: 0132-344X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian

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FILE 'CAPLUS' ENTERED AT 17:21:54 ON 14 AUG 2006

L1 1662 S SODIUM PEROXIDE  
 L2 696 S POTASSIUM SUPEROXIDE  
 L3 85969 S SODIUM HYDROXIDE  
 L4 86643 S L2 OR L3  
 L5 261 S L1 AND L4  
 L6 29 S L5 AND ALUMINUM  
 L7 1 S L6 AND HYDROLYSIS  
 L8 173 S ALUMINUM (2W) (HYDROGEN PEROXIDE)  
 L9 1 S L8 AND HYDROLYSIS

=> s l8 and l5

L10 0 L8 AND L5

=> s l8 and l1

L11 1 L8 AND L1

=> d l11 abs ibib 1-29

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN  
 AB For corrosion prevention in steels, aluminum, or titanium which experience active-passive transition in contact with an electrolyte, the hydrogen peroxide and/or peroxycarboxylic acids or their constituents are incorporated to inhibit corrosion by inducing passivation of the metal. Application of the method reduces the potential for fouling and scale formation and deposition.

ACCESSION NUMBER: 2001:935844 CAPLUS  
 DOCUMENT NUMBER: 136:57343  
 TITLE: Method for corrosion control in cooling water systems by passivation with hydrogen peroxide donors and peroxycarboxylic acids  
 INVENTOR(S): Martin, Roy  
 PATENT ASSIGNEE(S): United States Filter Corporation, USA  
 SOURCE: PCT Int. Appl., 27 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.             | KIND   | DATE     | APPLICATION NO. | DATE       |
|------------------------|--|----------|-----------------|------------|
| -----                  | ----   | -----    | -----           | -----      |
| WO 2001098558          | A2   | 20011227 | WO 2001-US19783 | 20010621   |
| WO 2001098558          | A3   | 20020704 |                 |            |
| W:                     | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |          |                 |            |
| RW:                    | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG   |          |                 |            |
| CA 2413888             | AA   | 20011227 | CA 2001-2413888 | 20010621   |
| US 2002043650          | A1   | 20020418 | US 2001-13879   | 20011210   |
| US 6645400             | B2   | 20031111 |                 |            |
| PRIORITY APPLN. INFO.: |  |          | US 2000-603764  | A 20000622 |
|                        |  |          | WO 2001-US19783 | W 20010621 |

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| L11 | 1 S L8 AND L1                           |